

Author Index to Volume 42

Ali, E. M., and Felimban, A. A.—
 Structural differences between RbMnCl_3
 and RbMnBr_3 307

Amos, K., and Raynal, J.—
 Deformation and spin 1 effects 591

Andrikidis, C.—
 See Smith, G. B. 431

Baggaley, W. J.—
 Ionospheric E_s in the southern
 hemisphere temperate zone. I.
 Seasonal characteristics of $f_0 E_s$ 451

Ball, L. T.—
 Heavy ion acceleration by
 double-cyclotron absorption: Some
 analytic approximations 493

Ball, L. T., and Melrose, D. B.—
 Double cyclotron absorption: A
 semiclassical formulation 481

Barker, F. C.—
 Delayed alpha spectra from the beta
 decay of ^8Li and ^8B 25

Barker, F. C., Kondō, Y., and Spear, R. H.—
 Static and dynamic moments of the ^7Li
 nucleus 597

Barker, F. C., and Woods, C. L.—
 Investigation of El strength in Coulomb
 excitation of light nuclei 233

Barnae, Z.—
 See White, T. J. 551

Batchelor, R. A.—
 See Caswell, J. L. 331

Baxter, A. M.—
 See Spear, R. H. 41

Bell, J. M.—
 See Smith, G. B. 431

Bertram, W. K.—
 Effect of a rotating magnetic field on the
 tilting instability of a prolate
 rotamak 379

Binks, R. E.—
 See Sloggett, G. J. 401

Bird, D. J., Clay, R. W., and Edwards, P. G.—
 Cosmic ray anisotropy below
 10^{15} eV 465

Blackwell, B. D., Hamberger, S. M.,
 Sharp, L. E., and Shi, X.-H.—
 Experimental studies of plasma confined
 in a toroidal heliac 73

Bocquet, A. E.—
 See Dobson, J. F. 409

Bourdillon, A. J.—
 See Zhou, J. P. 419

Brahde, R.—
 Lunisolar atmospheric tides. II 439

Brajamani, S.—
 See Mukherjee, K. K. 475

Brennan, M. J.—
 See Kelly, L. J. 365

Brettel, J. M.—
 Slowing of sound waves in powdered
 media 627

Burden, C. J.—
 See Cahill, R. T. 161

Burden, C. J., Cahill, R. T., and
 Praschifka, J.—
 Baryon structure and QCD: Nucleon
 calculations 147

Burnett, S. M.—
 See Spear, R. H. 41, 345

Burton, P. G.—
 See Senff, U. E. 47

Cahill, R. T.—
 See Burden, C. J. 147
 Hadronisation of QCD 171

Cahill, R. T., Praschifka, J., and
 Burden, C. J.—
 Diquarks and the bosonisation of
 QCD 161

Cahill, R. T., Roberts, C. D., and
 Praschifka, J.—
 Baryon structure and QCD 129

Caswell, J. L., Batchelor, R. A.,
 Forster, J. R., and Wellington, K. J.—
 H₂O masers in the galactic plane. II.
 Longitudes 260° to 326° 331

Choudhury, K. B.—
 See Mukherjee, K. K. 475

Ciampa, D.—
 See Edwards, P. G. 581

Clay, R. W.—
 See Bird, D. J. 465
 Edwards, P. G. 581

Cox, D. E., Toby, B. H., and Eddy, M. M.—
 Corrigendum to Acquisition of powder
 diffraction data with synchrotron
 radiation 735

Crompton, R. W.—
 See Petrović, Z. Lj. 609

Das, B. K., Satpathy, R. K., and
 Mishra, I. P.—
 Magnetic susceptibility of neutron
 matter using Skyrme forces 257

Das, M. P.—
 See Mahanty, J. 541

Delbourgo, R., and Zhang, R. B.—
 Characteristic features of vector
 chaos 113

Dobson, J. F., Bocquet, A. E., Healy, P. C.,
 Myhra, S., Stewart, A. M., and
 Thompson, J. G.—

X-ray photoelectron studies of
 high-temperature superconductors:
 Evidence for the importance of
 alkaline earth metals 409

Dou, S. X.—
See Zhou, J. P. 419

Dou, S. X., Liu, H. K., and Sorrell, C. C.—
 A diffusion reaction technique for the
 preparation of thick films of cuprate
 superconductors 535

Driver, R.—
See Lusk, J. 425

Müller, K.-H. 413

Sloggett, G. J. 401

Durrant, C. J.—
 Linear force-free magnetic fields and
 coronal models 317

Eddy, M. M.—
See Cox, D. E. 735

Edwards, P. G.—
See Bird, D. J. 465

Edwards, P. G., Ciampa, D., Clay, R. W.,
 and Patterson, J. R.—
 A search for ultra-high-energy
 gamma-ray emission from binary X-ray
 systems 581

Elcombe, M. M.—
See Town, S. L. 289

Erdman, D. A.—
See Lusk, J. 425

Euler, N., and Steeb, W.-H.—
 Painlevé test and discrete Boltzmann
 equations 1

Felimban, A. A.—
See Ali, E. M. 307

Filipczuk, S.—
See Smith, G. B. 431

Forster, J. R.—
See Caswell, J. L. 331

Freeman, T. E.—
See Lusk, J. 425

Goodman, P.—
See White, T. J. 551

Gyapong, G. J.—
See Spear, R. H. 345

Hamberger, S. M.—
See Blackwell, B. D. 73

Harvey, I. K.—
See Sloggett, G. J. 401

Healy, P. C.—
See Dobson, J. F. 409

Hollenberg, L. C. L., and McKellar, B. H. J.—
 Constructing large-basis meson
 wavefunctions from perturbative
 cavity dynamics 11

Meson mass spectrum from first order
 static cavity wavefunctions 471

Ja, Y. H.—
 An improved scheme using the shooting
 method to solve degenerate four-wave
 mixing equations 197

Jensen, D. G.—
See White, T. J. 551

Johri, V. B., and Sudharsan, R.—
 BD-FRW cosmology with bulk
 viscosity 215

Joyce, M. J., and Ninio, F.—
 Raman spectrum of rubidium thiocyanate
 at 37 K and room temperature 389

Kelly, L. J.—
See Wedding, A. B. 101

Kelly, L. J., Brennan, M. J., and Wedding,
 A. B.—
 Cathode region of a steady-state
 Townsend discharge in nitrogen 365

Kondō, Y.—
See Barker, F. C. 597

Li, L.—
See Wei, G. Z. 565

Lim, C. S.—
See Spear, R. H. 345

Liu, H. K.—
See Dou, S. X. 535

Lusk, J., Freeman, T. E., Erdman, D. A.,
 Driver, R., and Macfarlane, J. C.—
 High pressure studies of the
 superconducting transition in
 $(\text{Bi}, \text{Pb})_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ 425

Macfarlane, J. C.—
See Lusk, J. 425

Müller, K.-H. 413

MacGillivray, W. R.—
See Schulz, W. E. 267

McKellar, B. H. J.—
See Hollenberg, L. C. L. 11, 471

Mahanty, J., and Das, M. P.—
 A dielectric approach to high
 temperature superconductivity 541

Mazumdar, P. S.—
See Mukherjee, K. K. 475

Melrose, D. B.—
See Ball, L. T. 481
 Williams, D. R. M. 59

Melrose, D. B., and Percival, D. J.—
 Effect of small-scale inhomogeneities on the dispersive properties of a plasma 519

Miller, C. L.—
See Spear, R. H. 41

Mishra, I. P.—
See Das, B. K. 257

Mukherjee, K. K., Choudhury, K. B., Singh, N. R., Mazumdar, P. S., and Brajamani, S.—
 Total ionisation cross sections in e^- -H(2S) scattering 475

Müller, K.-H., Macfarlane, J. C., Ricketts, B. W., and Driver, R.—
 Role of flux pinning in high temperature superconductors 413

Myhra, S.—
See Dobson, J. F. 409

Nie, H. Q.—
See Wei, G. Z. 565

Ninio, F.—
See Joyce, M. J. 389

Norman, P.—
 Structure of four families of layered copper-oxide high T_c superconductors 545

Oza, A. T.—
 Infrared absorption and reflection spectra of crystalline TCNQ salts 203

Pasricha, P. K.—
See Sarma, S. B. S. S. 573

Patterson, J. R.—
See Edwards, P. G. 581

Percival, P. J.—
See Melrose, D. B. 519

Perley, R. A.—
See Slee, O. B. 633

Petrović, Z. Ij., and Crompton, R. W.—
 Electron transport coefficients in carbon monoxide and deuterium 609

Praschifka, J.—
See Burden, C. J. 147
See Cahill, R. T. 129, 161

Raynal, J.—
See Amos, K. 591

Ricketts, B. W.—
See Müller, K.-H. 413

Roberts, C. D.—
See Cahill, R. T. 129

Sarma, S. B. S. S., and Pasricha, P. K.—
 Measurements of the radio refractive index structure parameter C_n^2 with a microwave refractometer in tropical latitudes 573

Satpathy, R. K.—
See Das, B. K. 257

Savvides, N.—
See Smith, G. B. 431

Schultz, W. E., MacGillivray, W. R., and Standage, M. C.—
 Time-dependent studies of optical bistability in atomic sodium 267

Senff, U. E., and Burton, P. G.—
 A CEPA2 study of the H₂-H₂ isotropic potential function 47

Sharma, K. N.—
See Sharma, R. C. 735

Sharma, R. C., and Sharma, K. N.—
Corrigendum to Thermosolutal instability of a Hall plasma 735

Sharp, L. E.—
See Blackwell, B. D. 73

Shi, X.-H.—
See Blackwell, B. D. 73

Siegman, B. C.—
See Slee, O. B. 633

Singh, N. R.—
See Mukherjee, K. K. 475

Singh, V.—
 Computer simulation of positron annihilation and diffusion characteristics in Kr and Xe 187

Slee, O. B., Perley, R. A., and Siegman, B. C.—
A VLA survey of rich clusters of galaxies. I. Whole-cluster maps, source list and source statistics 633

Sloggett, G. J., Harvey, I. K., Wieczorek, L., Binks, R. E., and Driver, R.—
 Flux penetration effects in high- T_c SQUIDS 401

Smith, G. B., Bell, J. M., Savvides, N., Filipczuk, S., and Andrikides, C.—
 Field enhanced intrinsic fluctuations in highly oriented high T_c thin films 431

Smith, T. F.—
See Town, S. L. 289

Sorrell, C. C.—
See Dou, S. X. 535
Zhou, J. P. 419

Spear, R. H.—
See Barker, F. C. 597

Spear, R. H., Baxter, A. M., Burnett, S. M., and Miller, C. L.—
 Measurement of reduced electric octopole transition probabilities, $B(E3; 0_1^+ \rightarrow 3_1^+)$, for $^{118,120,122}\text{Sn}$ 41

Spear, R. H., Vermeer, W. J., Burnett, S. M., Gyapong, G. J., and Lim, C. S.—
 Coulomb excitation of ^{142}Ce and ^{144}Nd 345

Standage, M. C.—
See Schulz, W. E. 267

Standish, R. K.—
 Motion of charged particles in a homogeneous reacting medium with a one-dimensional geometry 223

Steeb, W.-H.—
See Euler, N. 1

Stewart, A. M.—
See Dobson, J. F. 409

Sudharsan, R.—
See Johri, V. B. 215

Thompson, J. G.—
See Dobson, J. F. 409

Toby, B. H.—
See Cox, D. E. 735

Town, S. L., Smith, T. F., and Elcombe, M. M.—
 Neutron Kikuchi effect and practical problems associated with its observation 289

Vermeer, W. J.—
See Spear, R. H. 345

Wedding, A. B.—
See Kelly, L. J. 365

Wedding, A. B., and Kelly, L. J.—
 Observation of spatial variations in the energy distribution function for steady-state Townsend discharges 101

Wei, G. Z., Nie, H. Q., Li, L., and Zhang, K. Y.—
 Correlation effects of third-order perturbation in the extended Hubbard model 565

Wellington, K. J.—
See Caswell, J. L. 331

White, T. J., Barnea, Z., Goodman, P., and Jensen, D. G.—
 Preparation and microstructural investigation of the high- T_c superconductor $\text{Pb}_2\text{Sr}_2\text{Y}_{0.5}\text{Ca}_{0.5}\text{Cu}_3\text{O}_8$ 551

Wieczorek, L.—
See Sloggett, G. J. 401

Williams, D. R. M., and Melrose, D. B.—
 Covariant response tensors for spin zero and spin one boson/anti-boson plasmas 59

Woods, C. L.—
See Barker, F. C. 233

Zhang, K. Y.—
See Wei, G. Z. 565

Zhang, R. B.—
See Delbourgo, R. 113

Zhou, J. P., Sorrell, C. C., Dou, S. X., and Bourdillon, A. J.—
 Twinning accommodation in highly aligned superconducting $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ 419

